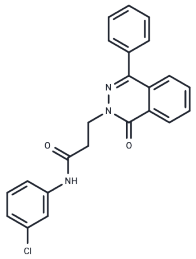
Data Sheet (Cat.No.T9891)

TargetMol

PARP1-IN-8

Chemical Properties



CAS No. : 836640-15-4

Formula: C23H18ClN3O2

Molecular Weight: 403.86

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	PARP1-IN-8 (N-(3-chlorophenyl)-3-(1-oxo-4-phenylphthalazin-2(1H)-yl)propanamide) is an effective inhibito of PARP1 (IC50 = 97 nM).
Targets(IC50)	PARP
In vitro	PARP1-IN-8 (0, 0.1, 1, 10 μM; 24, 48 h) showed significantly potent anti-proliferative activity against A549 cells and didn't display any significant cytotoxicity on HFF cells[1].

Solubility Information

Solubility	DMSO: 1 mg/mL (2.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4761 mL	12.3805 mL	24.7611 mL
5 mM	0.4952 mL	2.4761 mL	4.9522 mL
10 mM	0.2476 mL	1.2381 mL	2.4761 mL
50 mM	0.0495 mL	0.2476 mL	0.4952 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Almahli H, Hadchity E, Jaballah MY, Daher R, Ghabbour HA, Kabil MM, Al-Shakliah NS, Eldehna WM. Development of novel synthesized phthalazinone-based PARP-1 inhibitors with apoptosis inducing mechanism in lung cancer. Bioorg Chem. 2018 Apr;77:443-456.

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